

Rec'd PCT/PTO 08 SEP 2004

506,950

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number
WO 03/076511 A1

(51) International Patent Classification⁷: **C08L 23/16**,
23/12

TAKENOUCHI, Hiroshi [JP/JP]; 3-2-16, Tsujido, Fujisawa-shi, Kanagawa 251-0047 (JP). **NAKAJIMA, Takeshi** [JP/JP]; 2-42-1, Gohongi, Meguro-ku, Tokyo 153-0053 (JP).

(21) International Application Number: **PCT/EP03/02518**

(22) International Filing Date: **6 March 2003 (06.03.2003)**

(74) Agents: **GAVERINI, Gaetano**, et al.; Basell Poliolefine Italia S.p.A., Intellectual Property, Via Pergolesi 25, I-20124 Milano (IT).

(25) Filing Language: **English**

(26) Publication Language: **English**

(81) Designated States (*national*): AU, BR, CA, CN, CO, CZ, HU, ID, IL, IN, JP, KR, MX, NO, PH, PL, RO, RU, SG, SK, UA, US, YU, ZA.

(30) Priority Data:
02075992.4 12 March 2002 (12.03.2002) EP

(84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(71) Applicant (*for all designated States except US*): **BASELL POLIOLEFINE ITALIA S.P.A.** [IT/IT]; Via Pergolesi 25, I-20124 Milano (IT).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*
- *of inventorship (Rule 4.17(iv)) for US only*

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **PELLICONI, Ante** [IT/IT]; Via Volta, 22, I-45030 S. M. Madalena (IT). **GARAGNANI, Enea** [IT/IT]; Viale Mons. Natale Mosconi, 76, I-44100 Ferrara (IT). **YOKOYAMA, Yutaka** [JP/JP]; Estate Hachikura 103, 20-13 Daimachi, Kawasaki-ku, Kawasaki-City, 210-0814 (JP). **WASHIYAMA, Junichiro** [JP/JP]; 2-27-1, Akanedai, Aoba-ku, Yokohama 227-0066 (JP).

Published:

- *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: "POLYOLEFIN MASTERBATCH FOR PREPARING IMPACT-RESISTANT POLYOLEFIN ARTICLES"

(57) **Abstract:** A masterbatch composition comprising (1) 10-50 wt% of a crystalline propylene homopolymer and (2) 50-90 wt% of a blend consisting of (a) a copolymer of ethylene and one or more C₄-C₁₀ α-olefin(s), containing 10-40 of C₄-C₁₀ α-olefin(s), and (b) an amorphous copolymer of propylene and ethylene. Copolymer (b) has an ethylene content from 20-70 wt%, and an intrinsic viscosity value of the xylene-soluble moiety of from 2.2 to 3.5 dL/g, this value being equal to 0.8 to 1.2 times the intrinsic viscosity value of the xylene-soluble moiety of copolymer (a). The weight ratio of copolymers (a)/(b) is from 3/1 to 1/3. Polyolefin compositions comprising the said masterbatch composition are suitable for the manufacture of automotive parts.



WO 03/076511 A1